

Update on EPA Transportation and Air Quality Programs

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United States Environmental Protection Agency

TRB Regional and Project-Level Air Quality Innovations and
Resources Subcommittee

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Overview

- Regulatory Update
- Volkswagen Clean Air Act Civil Settlement
- Guidance, Training, and Research
- Ports Initiative and Technical Resources



Regulatory Update

- Light-Duty Vehicle GHG standards: Mid-Term Evaluation
- Heavy-Duty GHG Phase 2 standards
- Appendix W Guideline on Air Quality Models
- 2015 Ozone National Ambient Air Quality Standard (NAAQS)



VW CAA Civil Settlement Update

- 2.0 Liter Partial Settlement
 - Appendix B: Vehicle Recall and Emissions Modification
 - Emissions modifications approved for certain vehicles
 - Appendix C: Zero Emission Vehicle Investment
 - First 30-month plans approved
 - Appendix D: NO_x Mitigation Trust
 - Finalizing set of beneficiaries
- 3.0 Liter Partial Settlement



Revisions to Technical Guidance

- EPA's SIP and conformity guidance for quantifying the benefits for diesel retrofit and replacement projects
 - To reflect latest version of MOVES
- PM Hot-spot FAQs
- EPA's guidance on port emissions inventories (which addresses on-road/nonroad sources)



Available Training in FY18

- MOVES training
 - www.epa.gov/moves/moves-training-sessions
- PM hot-spot training
 - Updated course under development to reflect latest versions of guidance, MOVES, and AERMOD
 - www.epa.gov/otaq/stateresources/transconf/training3day.htm
- Webinars for other topics, such as the Ports Initiative and TEAM case studies



Near-Road Research Underway

- EPA-FHWA research on near road dispersion modeling to:
 1. Identify the requisite inputs and parameters in dispersion models to optimize validity of output concentrations.
 2. Gain additional understanding of the barrier edge effect and roadway/barrier distance effects on pollutant dispersion to enhance associated modeling efforts.
 3. Integrate the research dispersion model R-LINE into the AERMOD dispersion model to utilize beneficial elements of both models.
- EPA is interested in external studies evaluating air quality impacts of roadside features (noise barriers and vegetation)

EPA's Ports Initiative



Sign up for our newsletter @
www.epa.gov/ports-initiative



Ports Initiative Elements

Funding

Helping Ports Capitalize on Funding for Clean Technologies

Technical Resources

Providing Tools to Help Identify Smart Infrastructure Investments

Collaboration

Promoting Port-Community Collaboration for Effective Planning

Coordination

Increasing Efficiency in Federal Government and Port Operations

Communications

Creating a Knowledge Clearinghouse



Technical Resources

EPA-Port Everglades Partnership

- EPA and Port Everglades (PEV) are working together to develop:
 - ✓ Activity-based baseline emissions inventory
 - ✓ Emission reduction scenarios and inventories for future analysis years
 - Methods, lessons learned, and practical examples that EPA can share with other ports, related agencies, and stakeholders to support and encourage sustainable development.
- Target for completion: Early 2018



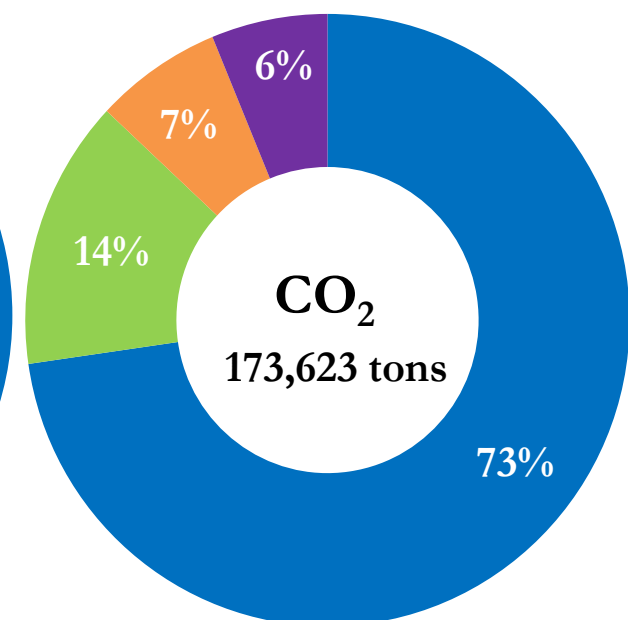
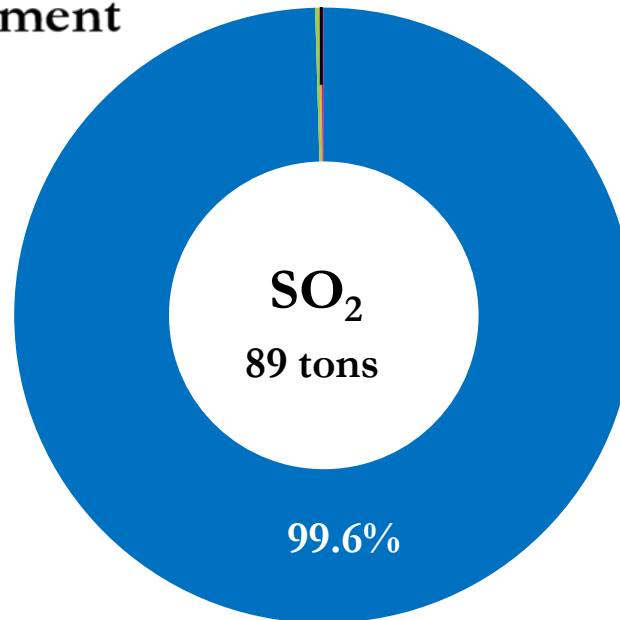
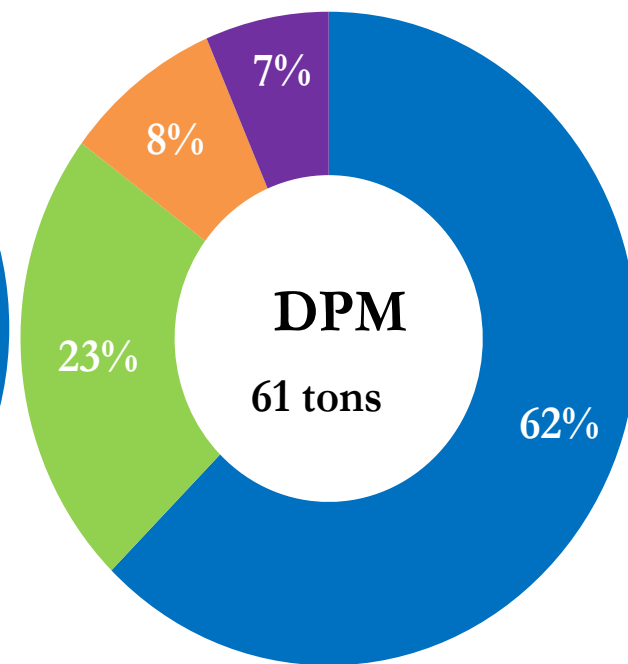
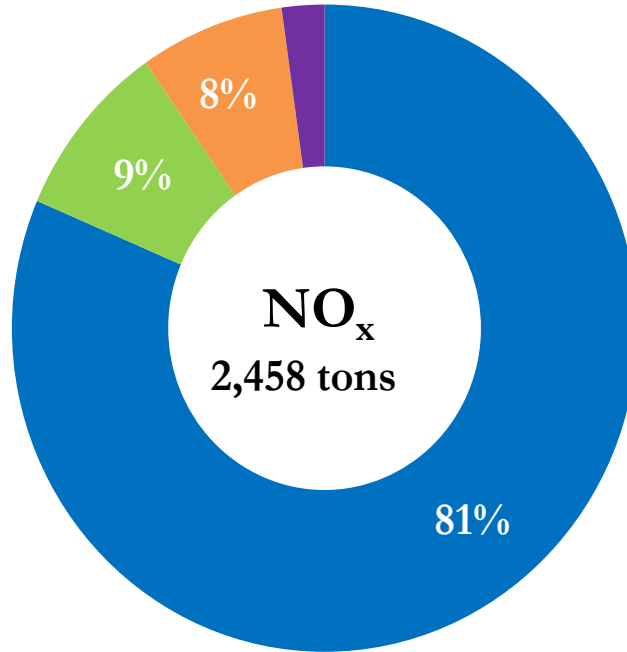
2015 Baseline Air Emissions Inventory is available at:

www.porteverglades.net/environment/air-quality/air-emissions-inventory

Also see: www.epa.gov/ports-initiative/epa-partnership-agreement-broward-countys-port-everglades

Baseline Results

- Ocean-going vessels
- Cargo handling equipment
- Harbor craft
- On-road vehicles
- Locomotives





EPA's Ongoing Work

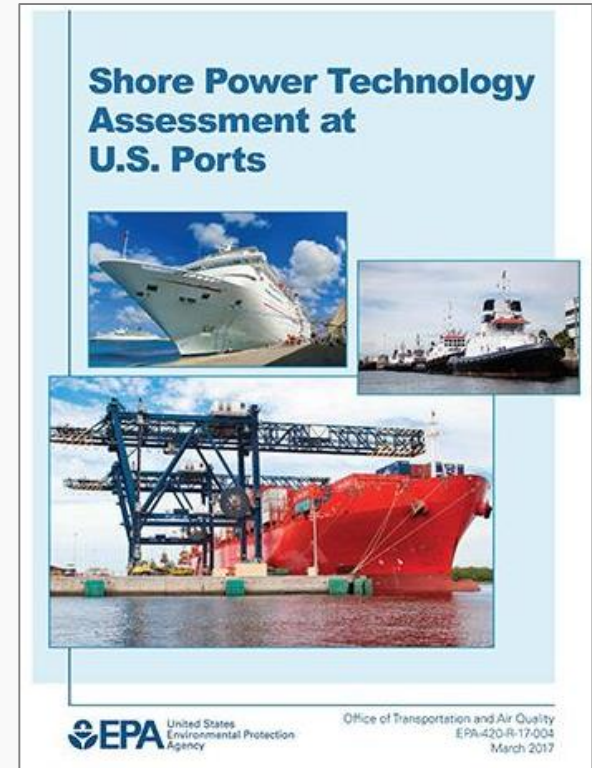
- ✓ Projecting future on-port and off-port emissions
 - 2025, 2035, and 2050
 - Based on 2014 Port Everglades Master/Vision Plan
 - Off-port emissions include truck, rail, and marine corridors
- ✓ Evaluating potential strategies for reducing emissions
 - Strategies to study and scenarios for implementation have been developed in collaboration with PEV



Technical Resources:

Shore Power Assessment

- Characterizes shore power systems at U.S. ports
- Includes a new methodology for calculating emission reduction of shore power systems
- Released April 4, 2017
- Available at: www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports

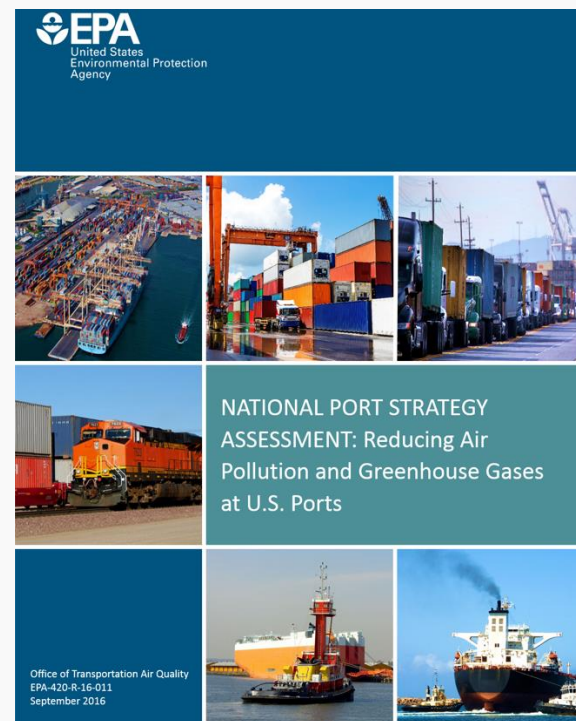




Technical Resources:

National Port Strategy Assessment

- *National Port Strategy Assessment: Reducing Air Pollution and Greenhouse Gases at U.S. Ports*
- Released September 22, 2016
- Available at: www.epa.gov/ports-initiative/national-port-strategy-assessment





Additional EPA-OTAQ Resources

- State and Local Transportation Resources:
 - www.epa.gov/state-and-local-transportation
 - Topics include transportation conformity and State Implementation Plans
- Travel Efficiency:
 - www.epa.gov/state-and-local-transportation/transportation-related-documents-state-and-local-transportation#control
- MOVES:
 - www.epa.gov/moves



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